

<b>MV</b> megavolt	<b>P</b> specific load or unit load; pressure; transmitted power	<b>PSII</b> plasma-source ion implantation
<b>M<sub>v</sub></b> bearing friction torque due to hydrodynamic fluid friction	<b>P<sub>a</sub></b> absolute ambient pressure	<b>PSZ</b> partially stabilized zirconia
<b>n</b> pinion speed; load life exponent (experimentally based, with consensus values published in the bearing standards; typically, $n = 3$ for ball bearings and $n = 10/3$ for roller bearings); number of triangles in regular polygon; independent contact points conducting in parallel; bearing speed	<b><math>\bar{P}_a</math></b> average (bulk) asperity contact pressure	<b>PTA</b> plasma transferred arc
<b>N</b> newton	<b>P<sub>a</sub></b> pascal	<b>PTFE</b> polytetrafluoroethylene
<b>N</b> number of cycles; normal solution; angular velocity of cylindrical contact; bearing speed; normal force	<b>PA</b> plasma arc (spray); prealloyed; polyamide	<b>P<sub>u</sub></b> fatigue load limit
<b>NA</b> numerical aperture	<b>PACVD</b> plasma-assisted chemical vapor deposition	<b>PVC</b> polyvinyl chloride
<b>NASA</b> National Aeronautics and Space Administration	<b>PAN</b> polyacrylonitrile	<b>PVD</b> physical vapor deposition
<b>NBS</b> National Bureau of Standards (former name of NIST)	<b>PAO</b> polyalphaolefin	<b>PVDF</b> polyvinylidene-difluoride
<b>NDE</b> nondestructive evaluation	<b>PAPVD</b> plasma-assisted physical vapor deposition	<b>q</b> heat flux distribution; oil flow rate
<b>NER</b> erosion resistance number	<b>PBT</b> polybutylene terephthalate	<b>Q</b> thermal energy generated per unit time
<b>n<sub>i</sub></b> inner ring speed	<b>PCD</b> polycrystalline diamond	<b>q<sub>av</sub></b> average heat flux distribution
<b>NIST</b> National Institute of Standards and Technology	<b>PCV</b> positive crankcase ventilator	<b><math>\bar{Q}_c</math></b> contact stress
<b>nm</b> nanometer	<b>PDF</b> probability density function	<b>Q<sub>gen</sub></b> heat generation
<b>n<sub>m</sub></b> cage speed (rolling-element orbital speed)	<b>Pe</b> Peclet number	<b>Q<sub>i</sub></b> rate of heat supplied to body i
<b>NMMA</b> National Marine Manufacturers Association	<b>PEEK</b> polyetheretherketone	<b>r</b> radius; radial distance of receiver from source; resistivity
<b>n<sub>o</sub></b> outer ring speed	<b>PEI</b> polyetherimide	<b>R</b> roentgen
<b>No.</b> number	<b>PEK</b> polyetherketone	<b>R</b> radius; gas constant; reliability expressed in terms of percent survival; resistance
<b>N<sub>0</sub></b> rationalized incubation period	<b>PEP</b> passive extreme pressure	<b>R</b> force vector
<b>NOR</b> incubation resistance number	<b>PES</b> polyether sulfone	<b>r<sub>0</sub></b> relative radius at an area before wear
<b>NPSH</b> net positive suction head	<b>PETN</b> pentaerithritol tetranitrate	<b>R<sub>0</sub></b> surface radius with lubricant film
<b>NPSHA</b> available net positive suction head	<b>PETP</b> polyethylene terephthalate	<b>r<sub>1</sub></b> radius of surface 1 at area before wear
<b>NPSHR</b> required net positive suction head	<b>PFPE</b> polyperfluoroalkylether	<b>r<sub>2</sub></b> radius of surface 2 at area before wear
<b>n<sub>RE</sub></b> ball or roller speed about its own axis	<b>pH</b> negative logarithm of hydrogen-ion activity	<b>r<sub>i</sub></b> radius of rolling body I
<b>ns</b> nanosecond	<b>p<sub>H</sub></b> maximum Hertzian contact pressure	<b>r<sub>II</sub></b> radius of rolling body II
<b>NSp</b> not specified	<b>PH</b> precipitation hardenable	<b>R<sub>a</sub></b> surface roughness in terms of arithmetic average
<b>N(Δ)/N<sub>cat</sub></b> relative life factor	<b>P<sub>H</sub></b> hardness; Brinell pressure	<b>RA</b> reduction in area
<b>N<sub>mean</sub></b> fatigue life when surface traction equals zero	<b>PHL</b> plastrohydrodynamic lubrication	<b>r<sub>B</sub></b> bushing radius
<b>Oe</b> oersted	<b>p<sub>i</sub></b> pocket pressure in hydrostatic bearing	<b>RB</b> reaction bonded
<b>OECD</b> Organisation for Economic Cooperation and Development	<b>PKA</b> primary knock-on atom	<b>RCF</b> rolling contact fatigue
<b>OFD</b> oxyfuel detonation (spray)	<b>PLP</b> percent of large particles	<b>RCW</b> rolling contact wear
<b>OFF</b> oxyfuel powder (spray)	<b>p<sub>m</sub></b> flow pressure or hardness of material	<b>RDX</b> cyclotrimethylene trinitramine
<b>OFW</b> oxyfuel wire (spray)	<b>PM</b> permanent mold	<b>R<sub>e</sub></b> equivalent radius of curvature; rationed erosion rate
<b>OMCVD</b> organo-metallic chemical vapor deposition	<b>P/M</b> powder metallurgy	<b>RE</b> rare earth
<b>ORNL</b> Oak Ridge National Laboratory	<b>PMMA</b> polymethyl methacrylate	<b>Ref</b> reference
<b>OSHA</b> Occupational Safety and Health Administration	<b>P<sub>N</sub></b> nominal normal stress on contact patch	<b>REF</b> relative erosion factor
<b>oz</b> ounce	<b>p<sub>0</sub></b> yield pressure	<b>rf</b> radio frequency
<b>P</b> page	<b>POD</b> pin on disk	<b>RH</b> relative humidity
<b>p</b> pressure; hydrostatic pressure acting on the surface	<b>POF</b> pin on flat	<b>RIP</b> reactive ion plating
<b>p*</b> local asperity contact pressure; equilibrium vapor pressure at an evaporant surface	<b>POM</b> polyoxymethylene	<b>rms</b> root mean square
<b><math>\bar{P}</math></b> average (bulk) hydrodynamic pressure	<b>P<sub>or</sub></b> static equivalent radial load	<b>R<sub>n</sub></b> neutral radius
<b>P</b> pearlite	<b>POR</b> pin sliding against the cylindrical surface of a rotating ring	<b>R<sub>p</sub></b> single predominant peak height; leveling depth
	<b>ppb</b> parts per billion	<b>rpm</b> revolutions per minute
	<b>ppba</b> parts per billion atomic	<b>R<sub>pm</sub></b> mean height of highest peaks on five adjacent sampling lengths; average leveling depth
	<b>ppm</b> parts per million	<b>RPOF</b> reciprocating pin on flat
	<b>ppmm</b> parts per million by mass	<b>R<sub>q</sub></b> rms (root mean square) roughness
	<b>PPS</b> polyphenylene sulfide	<b>R &amp; O</b> rust and oxidation inhibited
	<b>ppt</b> parts per trillion	<b>r<sub>s</sub></b> shaft radius
	<b>PSD</b> power spectral density	<b>RS</b> reactive sputtering
	<b>psi</b> pounds per square inch	<b>R<sub>sk</sub></b> skew roughness
	<b>psia</b> pounds per square inch absolute	<b>RSOF</b> reciprocating, spherically ended pin on a flat surface
	<b>psig</b> gage pressure (pressure relative to ambient pressure) in pounds per square inch	